2A3

2A3
POWER TRIODE

GENERAL DATA

Electrical:

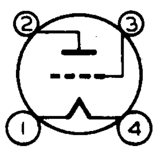
Filament, Coated:		
Voltage	2.5	ac or dc volts
Current	2.5	amp
Direct Interelectrode Capacitances (Approx.):*		
Grid to Plate	16.5	μμf
Grid to Cathode	7.5	μμf
Plate to Cathode	5.5	μμf

* With no external shield.

Mechanical:

Mounting Position	Any ←
Maximum Overall Length	5-3/8"
Maximum Seated Length	4-3/4"
Maximum Diameter	2-1/16"
Bulb	ST-16
Base	Medium-Shell Small 4-Pin
Basing Designation for BOTTOM VIEW	4D

Pin 1 - Filament
Pin 2 - Plate



Pin 3 - Grid
Pin 4 - Filament

AMPLIFIER - Class A_1

Maximum Ratings, ***Design-Center Values:***

PLATE VOLTAGE	300 max.	volts
PLATE DISSIPATION	15 max.	watts

Typical Operation and Characteristics:

Plate Voltage	250	volts
Grid Voltage#▲	-45	volts
Amplification Factor	4.2	
Plate Resistance	800	ohms
Transconductance	5250	μmhos
Plate Current	60	ma.
Load Resistance	2500	ohms
Second Harmonic Distortion	5	%
Power Output	3.5	watts

Maximum Circuit Values:□

Grid-Circuit Resistance	fixed bias	0.05 max.	megohm
	cathode bias	0.5 max.	megohm

#,▲,□: See next page.
← Indicates a change.

2A3

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POWER TRIODE

PUSH-PULL AMPLIFIER – Class AB_1

Maximum Ratings, ***Design-Center Values*:**

PLATE VOLTAGE.	300 max.	volts
PLATE DISSIPATION.	15 max.	watts

Typical Operation:

Values are for 2 tubes

	Fixed Bias	Cathode Bias	
Plate Voltage.	300	300● . .	volts
Grid Voltage#	-62	– . .	volts
Cathode-Bias Resistor.	–	780 . .	ohms
→ Peak AF Grid-to-Grid Voltage . . .	124	156 . .	volts
Zero-Signal Plate Current.	80	80 . .	ma.
→ Max.-Signal Plate Current.	147	100 . .	ma.
Effective Load Resistance (plate to plate) . . .	3000	5000 . .	ohms
Total Harmonic Distortion.	2.5	5.0 . .	%
Power Output	15	10 . .	watts

Maximum Circuit Values:□

Grid-Circuit Resistance. . . { fixed bias 0.05 max. megohm; cathode bias 0.5 max. megohm }

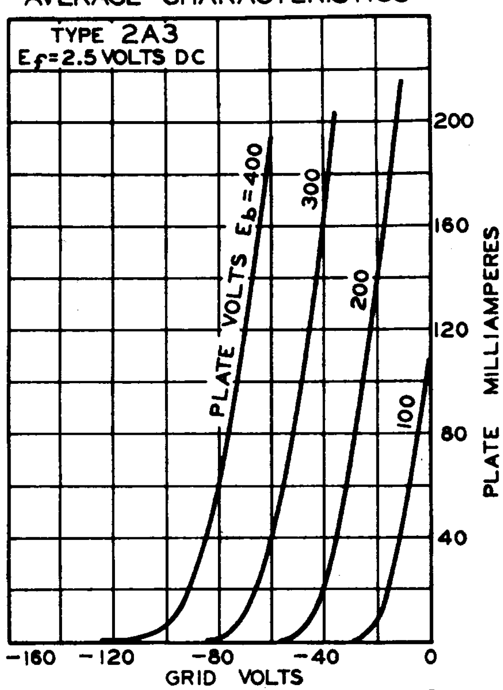
\# Grid voltage referred to mid-point of ac-operated filament.

▲ When a single 2A3 is operated cathode-biased, the cathode-biasing resistor value should be 750 ohms.

□ The type of coupling used should not introduce too much resistance in the grid circuit. Transformer or impedance-coupling devices are recommended.

● For zero-signal conditions.

AVERAGE CHARACTERISTICS



→ Indicates a change.

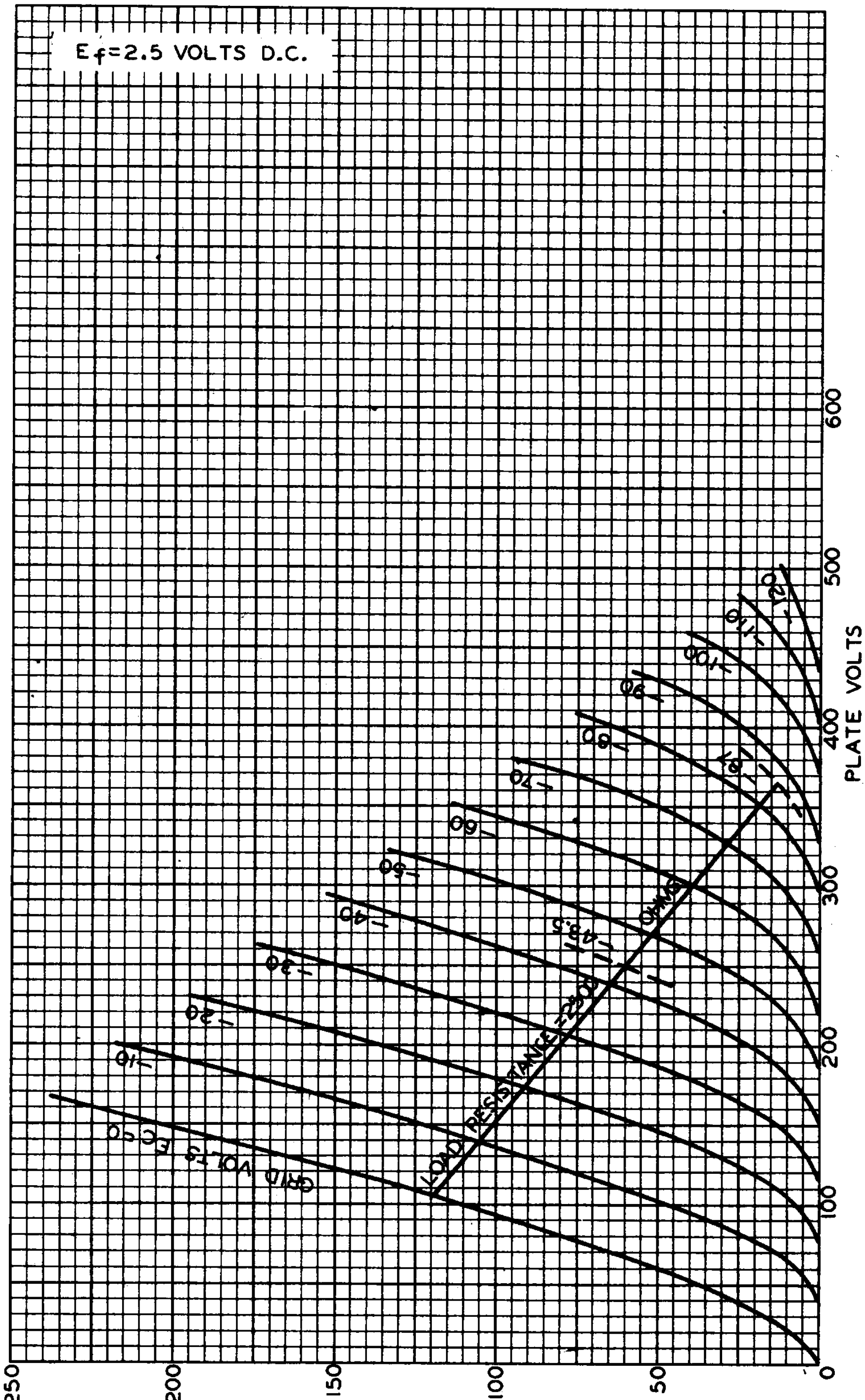
92CM-5328T

2A3

Cunningham Radiotron

RCA-2A3

AVERAGE PLATE CHARACTERISTICS



MARCH 9, 1933

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

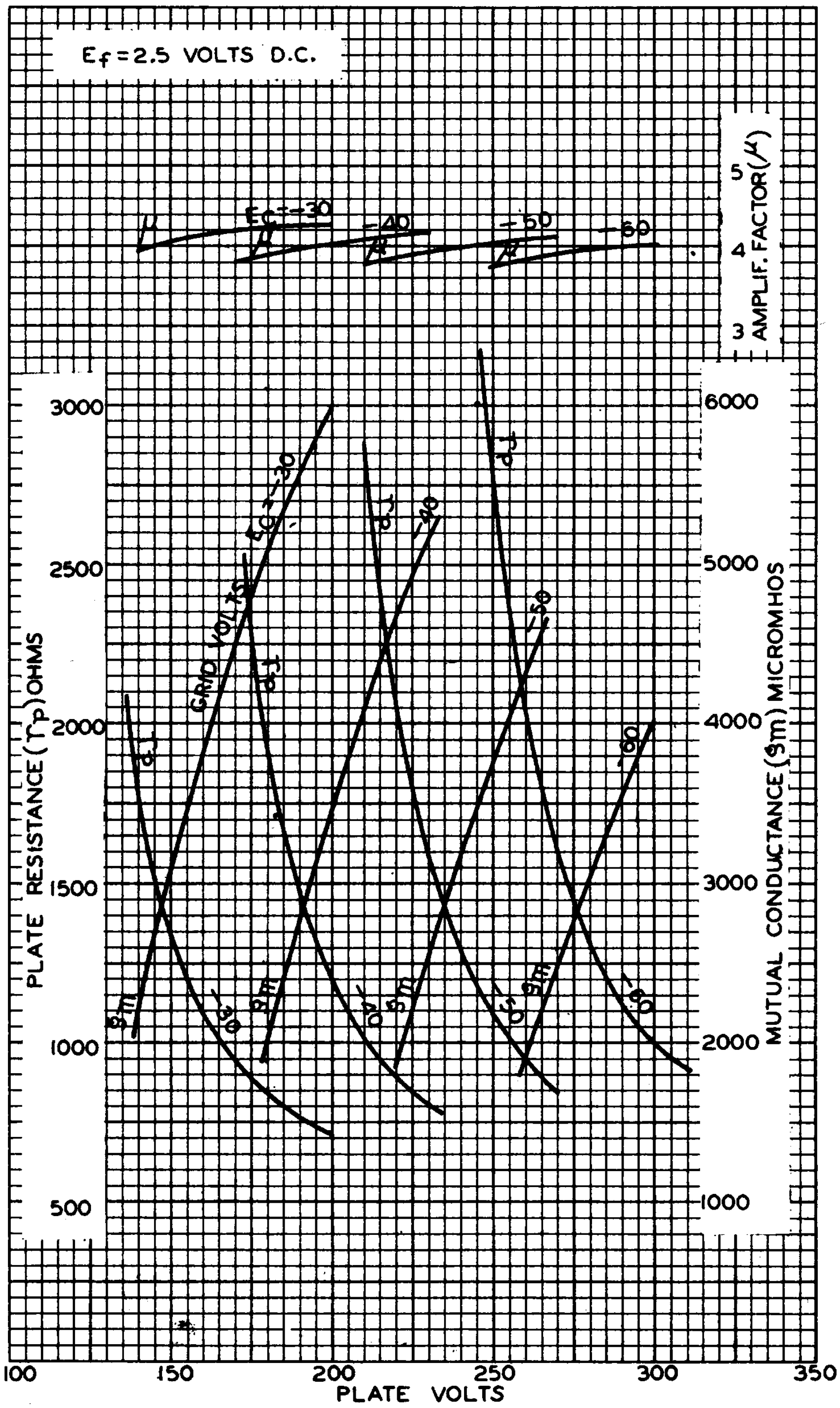
92S-5233R1

2A3

Cunningham Radiotron

RCA-2A3

AVERAGE CHARACTERISTICS



JUNE 12, 1933

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92S-5326R1